

FIG. 1

1 GACACCCAGTCATCAGTCACATCTGCTTTCCTGCACAGAGAGCGCCATAAAACATGAAGGTTTGTGTTACTCTTTGCTGTTTTCTTCTGCTTGGTCCA
M K V L L L F A V F F C L V Q

100 AAGAACTCAG
R N S
gtaaatgtcttctgagtagccctggagaaggcaggatgcccttttaggtttgtagaccacattgaggtgtgtccaggtatcaacattgg
200 gcacagatggtgggacctctggggtcagggtcggaccactttcctaacgaagaggttttatttggattttttttgtttgttcatttgcagagttg
300 caaattttacagcacggagacacagaggcctatatctccattgtgtaataagaaggtctgattgtaacttgagagtttattcaggacagaattacagccg
400 tacctgtgtcaaaagtgtaatTTTactgcctcgctgtgagcagagaaggtgttcacatttatgcccttccctaccattacatccacagaacaccagat
500 gtatgctttaaatgaattttcaaatgagagaaaaataggttcctttaagaagagctagagtcagggtcctgaagccttgaaatgtctggcagttctgtcaag
600 gtggactacaccacatctccatgaaccttcccaacctggtaaacggatgaacacagtatcacaatcagtcctccagctgaagtccggctattgacagg
700 agaccagtttcttaaatgttacaggcataggttgggcccgtgtgtcttttaacacaggggtgtgcaacattgttaaaaagggtttttttaaccatctctt
800 tcccatggtgctttcttttgggggactctagttgttttgtttgttttattgttttacttagaaggacacacaagacacattgttatctttcttcttct
900 tattgtagtacataagagtgaaaacccaacctgagctgagacagaccgctcctaacttttctatggcctgagaccagctcctgttatctgttctgtt
1000 ttctttttcttttttaatttattttttatgtatgtgagtacagtgtcactgtcttcagacacaccagaagaggggtgcagatcccattacagatggtt
1100 gtgagccaccatgtggttctgtgggaattgaactcgggacctctggaagagcagtcagtgctcttaaccgctgagccatcttccagccccctgttctgtt
1200 tcttaataaccactccccactcccaaatgtacctctatctctgggcagctgcagagccctggcctgcaatgggctaggtgacttcacactcagtcgtc
1300 atgccatccccgaaacaccacgagatataaatggttgctattgaaagctaaggaggaaaaatctcagtgacgccgaaactctggaagagtgagcagattc
1400 ttcgagaggggctgggggctgggggctgggggctggagccactgttttatctcagtcgtgtgtttccacac
GGGACATACCACCTGGAATCAGAAACACC
G D I P P **G** I R N T

1500 GTGTGCTTCATGCGCGGGCCACTGTAGGCTCTTCATGTGCGTTCCTGGGGAGAGAAAGGGGATATTTGCTCTGACCCCTGGAACAGATGCTGCGTAT
V C F M Q R G H C R L F M C R S G E R K G D I C S D P W N R C C V

1600 CCAGTTCCATTAAAAACAGATGATAGAACTCATTGGAAGATCTGAGATGTGGGGTGCAAGCTCTTGAAGCTAGAGACCTGGAAGCACCCCAAGGCT
S S **S** I K N R * *

1700 TTGAGTATGTGTGGCTAATGGTGGTCTCTAATAAACACTTGCTG

FIG. 2A



20 40 60 80

Bin1b MKV-LLLFAVFFCLVORNSG-----DIPPGIRNTVCFMQRGHCRLFMCRSGERKGDICSDPWNRCVSSSIKNR-----
EP2E MKV-FFLFAVLFCLVQTN SG-----DVPLGIRNTICRMQQGICRLFFCHSGEKKRDICSDPWNRCVSSNTDEEGKEKPEMDGRSGI
BNBD9 -----PEGVRNFVTCRINRGFCVPIRCPGHRRQIGTCLGPQIKCCR-----
BNBD3 -----PEGVRNHVTCRINRGFCVPIRCPGHRRQIGTCLGPRIKCCR-----
BNBD7 -----PEGVRNFVTCRINRGFCVPIRCPGHRRQIGTCLGPRIKCCR-----
TAP MRLHHLLALLLFLVLSAWSG-----FTQGVGNPVSVCVRNKGICVPIRCPGSMKQIGTCVGRVAKCCRK-----
LAP MRLHHLLALLLFLVLSAGSG-----FTQGVNRSQSCRRNKGICVPIRCPGSMRQIGTCLGAQVACCRK-----
EBD MRLHHLLLTLLFLVLSAGSG-----FTQGISNPLSCLRNKGICVPIRCPGNLROIGTCFTPSVACCRWR-----
HBD1 MRTSYLLFTLCLLSEMASGGNFLTGLGHRSDHYNVSSGGQCLYSACPIFTKIQGTCYRGKAKCK-----
HBD2 MRVLYLLFSPLFFFLMPLPG-----VFGGTGDPVTCCLKSGAICHVFCPRRYKQIGTCGLPGTKCKKP-----
HBD3 MRLHYLLFALLFLVLPVPGHG-----GIINTLQYICRVGRGCAVLSCLPKEEIGKCTRGRKCCRKK-----
CBD1 MRTSYLLFTLCLLSEMASGGNFLTGLGHRSDHYNVSSGGQCLYSACPIFTKIQGTCYRGKAKCK-----
CBD2 MRVLYLLFSPLFFFLMPLPG-----VFGGTGDPVTCCLKSGAICHVFCPRRYKQIGTCGLPGTKCKKP-----
MBD1 MKTHYLLVMTCLFSLQMEPGVILTSIGRRTDQYKCLQHGGFCRLSSCPSNTKLQGTCKPKDKPNCCKS-----
MBD2 MRLCSLLLCCLFSYTPAVGSLKSGYEAELDHCHTNGGYCVRAICPPSARRPGSCFPEKNPCCCKYMK-----
MBD3 MRLHYLLFALLLVLSPAA-----FSKKINNPVSLRKGGRCWNR-CIGNTRQIGSGGVPLKCCRK-----
MBD4 MRLHYLLFTFLVLLSPLAA-----FTQIINNPITCMTNGAICWGP-CPTAFROIGNCGHFVKCKKIR-----
RBD1 MKTHYLLVMTCLFSLQMELGAGILTSIGRRTDQYRCLQNGGFCRLSSCPSHTKLQGTCKPKDKPNCCKS-----
RBD2 MRLHYLLFALLLVLSPSA-----FTQSTNNPITCLTKGGVCWGP-CTGGFROIGTCGLPRVCCRKK-----
GBD1 MRLHHLLLVLLFLVLSAGSG-----FTQGISRRSRCHRNKGVCALTRCPNMRQIGTCFPGPPVCCRKK-----
GBD2 MRLHHLLLALLFLVLSAGSG-----FTQGTINHRSCYRNKGVCAPARCPNMRQIGTCFPGPPVCCRKK-----
SBD1 MRLHHLLLVLLFFVLSAGSG-----FTQGVNRLSCHRNGKGVCPSPRCPNMRQIGTCRGPVPCRKK-----
SBD2 MRLHHLLLVLLFFVLSAGSG-----FTHGYTDSLSCRWKKGICVLTCPGTMRQIGTCFPGPPVCCRKL-----
PBD1 MRLHRLLLVFLMVLPLVPG-----LLKNIGNSVSLRNKGVCMPGKCAPKMKQIGTCGMPQVCCRKK-----
Gal1 -----GRKSDCFRKGFCAPFLKCPSLTLISGKCSRFL-CCCKRIW-----
Gal1a -----GRKSDCFRKNFGFCAPFLKCPYLTLISGKCSRFL-CCCKRIW-----
Gal2 -----LFC-KGGSCHFGGCPSHLIKVGSCFGFRS-CCCKWPNA-----
THP1 MRLVYLLFPFLLLAQAAG-----SSLALGKREKCLRRNGFCAPLKCPTLVISGTCRFPV-CCCKTLG-----
THP2 MRLVYLLFSLLFLAQAQVS-----PGLSSPKRDMFLC-KRGTCFGRCPSHLIKVGSCFGFRS-CCCKWPDA-----
m 1 c g c Cp g c cc

FIG. 2B

20 40 60

Bin1b MKVLLLFVFFCLVORNS-----
EP2E MKVFFLFVLFCLVQTN-----
EP2D MRQRLLPSTL SLLLVALLFPQGSSQARHVNHSAEALGELBERAPGQGTNGFQLLRHAVKRDLLPRT
HE2b1 MRQRLLPSTL SLLLVALLFPQGSSQARHVNHSAEALGELBERAPGQGTNGFQLLRHAVKRDLLPRT

80 100 120

Bin1b -----GDIPPGIRNTVCFMQRGHCRLFMCRSGERKGDICSDPWNRCVSSSIKNR-----
EP2E -----GDVPLGIRNTICRMQQGICRLFFCHSGEKKRDICSDPWNRCVSSNTDEEGKEKPEMDGRSGI
EP2D PPYQGDVPLGIRNTICRMQQGICRLFFCHSGEKKRDICSDPWNRCVSSNTDEEGKEKPEMDGRSGI
HE2b1 PPYQGDVPPGIRNTICRMQQGICRLFFCHSGEKKRDICSDPWNRCVSSNTDEEGKEKPEMDGRSGI

FIG. 2C

FIG. 3A

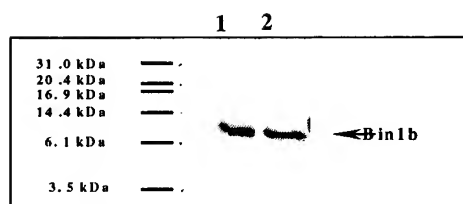


FIG. 3B

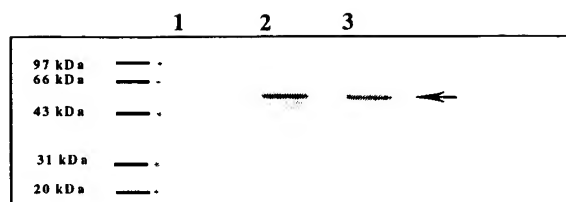


FIG. 3C

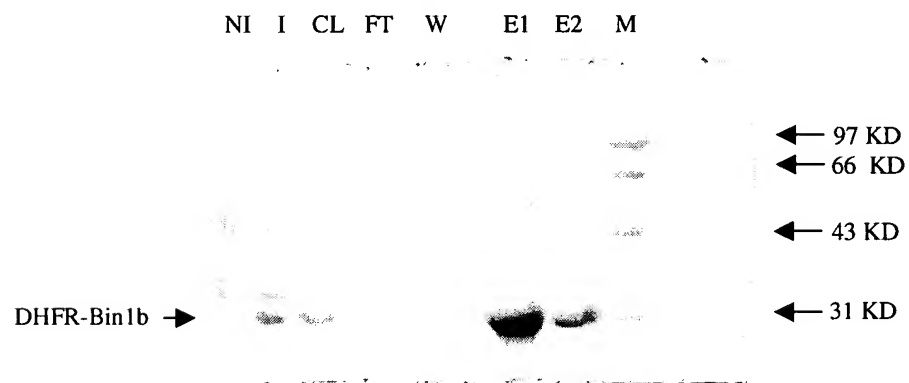
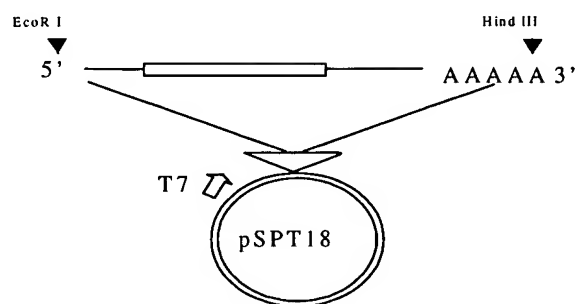


FIG. 4

FIG. 5A

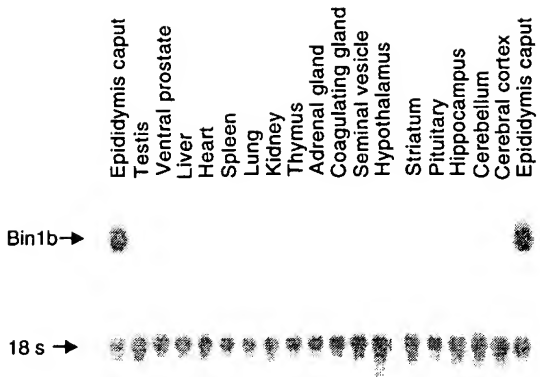


FIG. 5B

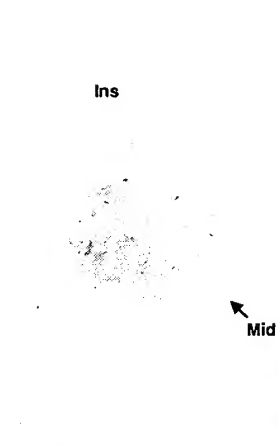


FIG. 5C

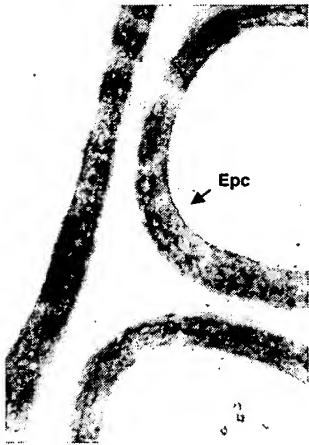


FIG. 5D

Epc

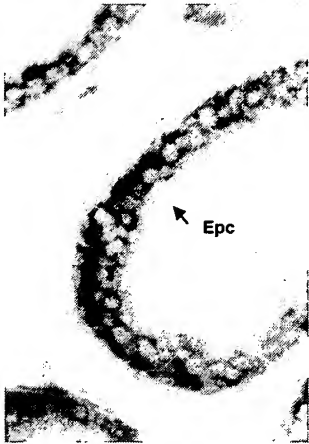
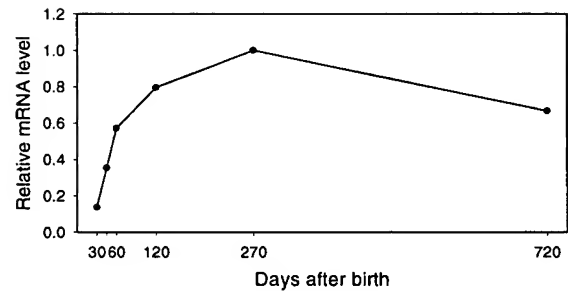


FIG. 5E

Epc

FIG. 5F



15 d 30 d 45 d 60 d 120 d 270 d 720 d
1 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3

Bin1b →



18 s →



FIG. 6A

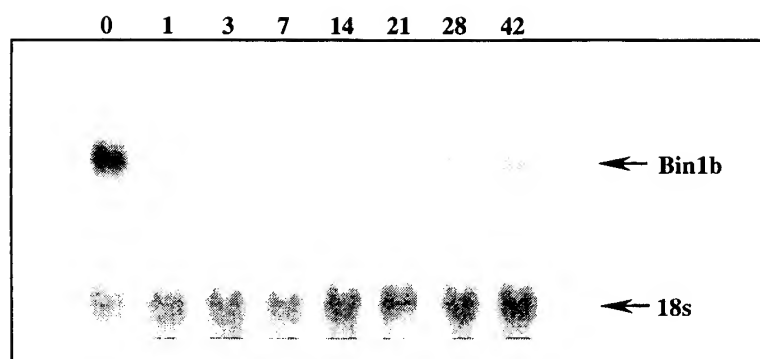


FIG. 6B

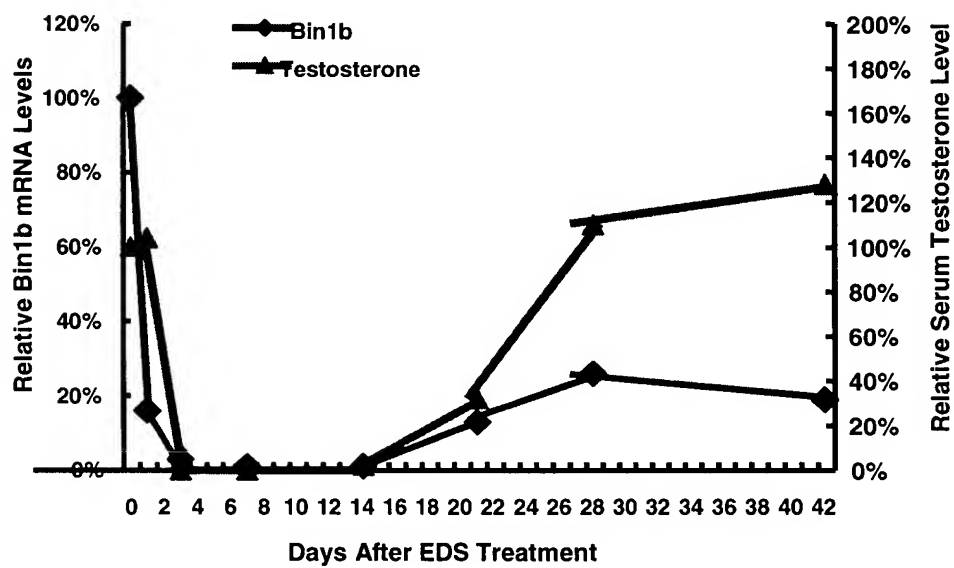


FIG. 7A

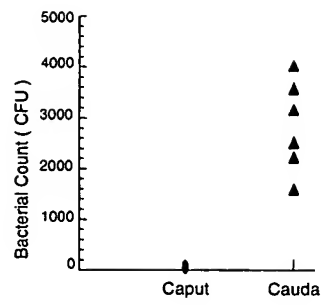


FIG. 7B

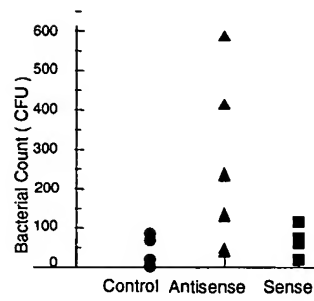


FIG. 7C

